

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski)  
Subject: [3416] Another York hamfest report  
Message-ID: <1995Sep24.221901.16261@abs.net>

My turn to report on the York, PA hamfest. With the usual caveat about leaving someone out and offending them, I'd like to add W3TS, WA3SRE and N2CX to the list of Known QRPers spotted there. I only met K7YHA once, in 1986 or 1987, and I only saw him for 5 minutes so I couldn't remember what he looked like. All I knew was that he had a tailgating spot somewhere and that K3TKS and I had to look for him. Fortunately we ran into KT3A early on and he led us directly to Rich. It was fortunate since he didn't look anything like I thought he would, although the open NorCal 40A sitting the table would probably have given him away--to say nothing of the piles of all three volumes of his QRP books!. Then again, he wasn't even there when we arrived, and his wife was wondering who these two Crazies were who were taking over her area :-). When he finally wandered back I noted that he bears a slight resemblance to WB8VGE, and a couple of the other QRPers agreed.

In all, the QRPers sold many copies of the QRP Quarterly, signed up some people for various QRP clubs, including the Central PA QRP club and the Maryland Milliwatts, and proudly displayed a wrinkled and crumpled QRP ARCI banner draped across the rear window of a car. Hint: the banner fits a flat wall much better!

I showed off my bag-o-QRP goodies, my teenie rigs, including a couple DB-25 rigs-in-pill-bottles. I had WG3R's with me, one of the two full transceivers built inside the 3/4 cubic inch bottles. I was supposed to have returned it to him months ago, but hung onto it so I could keep showing it off. I ran into him at the hamfest and had to show it to him to prove I hadn't lost it. He gave me fair warning that he had recently acquired some soldering paste and was giving very serious thought to finally starting construction on Phase II (which we've been talking about for over a year).

Driving up, K3TKS had a mobile whip on the car and his NorCal 40A on the dashboard, along with miniature CW key. We listened to it for a while but the band was in pretty poor shape. He had planned to try running the Sat morning 7040 KHz NEN QRP net but didn't even bother. He did consider hooking up his MFJ regen receiver, also in the car, so he could call up the net and I could monitor him. We would then swap rigs, he would listen on the MFJ while I checked into the net with the NorCal 40A, then swap again to acknowledge me. That way I'd get QNI credit! We never did it, due to laziness, but later at the hamfest N2CX and I had a short QSO from the tailgating area exactly that way. (We had to listen to the second harmonic of the NorCal,

since it overloaded the regen badly on the fundamental.)

A reminder for those who want to "show the flag" for the QRP ARCI at hamfests or conventions in their areas--the Club has several banners available for loan, like the one shown on the cover of the July issue of the QRP Quarterly. I have the East Coast loaner in my house if anyone wants to use it. (Return postage will be reimbursed, as well as cost of table or booth that you use to set up a QRP ARCI display.)

73 and Queue Our Pea DE WA8MCQ

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Mike Czuhajewski, user of the UniBoard System @ abs.net

E-Mail: Mike.Czuhajewski@bbs.abs.net

The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA

Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995

From: wkt@phyast.nhn.uoknor.edu (Wayne K. Trail)

Subject: [3418] Concealed Longwire Antenna: a cry for help

Message-ID: <9509250356.AA17456@phyast.nhn.uoknor.edu>

Hi all,

I am trying to put up a longwire antenna to work 40 and 80 meters (and any other bands I can get to work).

I want to put up a semi-concealed antenna on the roof of my apartment complex. I am on the first floor of a 2-story building which has a peaked roof which peaks at about 30 feet, I believe. I will have to run an end-fed longwire for practical reasons. I will not be able to do any pruning, so my plan is to put up a 61' longwire fed with a rg58 coax (could I use a smaller coax??) (which I can hide by taping to a drainpipe(! Is that OK?)).

After reading a post by jcoote@aol.com, in listing 127 a few days ago, I thought maybe I should rethink the coax part...

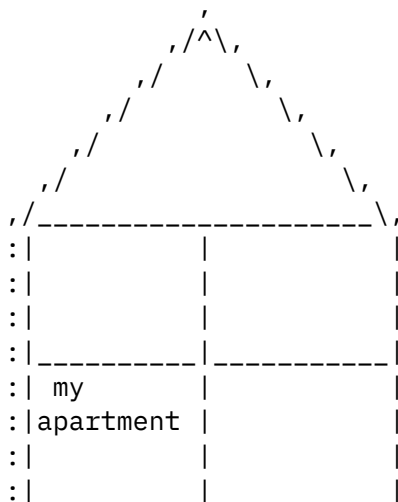
The coax would run up to the eave, then the longwire would run right on top of the shingles up the slanting roof to the peak, then down the other side. In the figure below, : is the coax and , is the antenna (which is LYING on the roof---which means I want the wire thin so it is hard to see).

Can you tell me if this sounds like a viable solution?

How thin a wire can I get away with on the antenna? (assuming 5-10 watts max power from a QRP+)?

Should I be using some other transmission line  
(as seemed to be indicated in discussion in this group  
over the last few days)? If so, what kind and is it  
OK to run it alongside a drainpipe?

Should I make the wire as long as possible (e.g. 71 feet--  
which is max allowed by roof size)  
or should I cut it so that it is pretty close to tuned  
on some 80m frequency which makes it around 61 feet (1/4 wave)?



Any ideas and suggestions are welcome  
Thanks for your help!  
wayne n0xsh

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: "Bill Kelsey - N8ET - Kanga US" <kanga@brutus.bright.net>  
Subject: [3414] CW Operator's QRP Club Dues (VK Club)  
Message-ID: <199509250204.WAA00458@brutus.bright.net>

A few weeks ago I got my renewal notice for the VK-land QRP Club. I  
will be sending it in shortly. I have taken subscriptions at Dayton  
- If anyone would like to sign up or renew now, please let me know - I'll  
include it with my renewal so they only have to convert one check  
from US dollars. The cost is \$14 per year.

If anyone is interested I will need your name, address, call, and

Member number (if already a member) asap.

73

73 - Bill Kelsey - N8ET

Kanga US

kanga@bright.net

419-423-4604

[HTTP://qrp.cc.nd.edu/kanga/](http://qrp.cc.nd.edu/kanga/)

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995

From: paul1@wizard.ucs.sfu.ca (Paul Erickson)

Subject: [3410] HW-8 Handbook

Message-ID: <9509242159.AA16935@wizard.ucs.sfu.ca>

Does anyone know if there is anyone offering the HW-8 handbook who can take phone orders (ie. plastic)? or better yet email orders?

cheers, Paul

VE7CQK

email: paul1@wizard.ucs.sfu.ca

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995

From: K5ERJ@aol.com

Subject: [3409] Icom Pwr Supply

Message-ID: <950924170636\_28013422@mail04.mail.aol.com>

Greetings to ALL.

A friend and neighbor, Carl W0HIK has blown his Icom Power Supply and is off the air. He badly needs a schematic for the IC-PS-30 supply.

If anyone can help Carl, he would be glad to reimburse copy and postage expenses. Carl's mailing adr is:

Carl Fisher W0HIK  
5 Angelina Drive  
Augusta, KS 67010

We would both appreciate any help on this.

72

Ed K5ERJ

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: PeterWK8S@aol.com  
Subject: [3412] KC1 kit & Sierra  
Message-ID: <950924213057\_28203336@emout06.mail.aol.com>

Hi group,

The KC1 kit from Wilderness is a marvel in it's miniature size and maximum benefit for most any QRP cw transceiver. It took less than an hour to build but a bit longer to interface into the original Sierra. It'll be easier to install in the new Sierra from Wilderness Radio as a muting circuit will already exist between the product detector and audio amp.

On my original Sierra I cut the two traces between the product detector and audio amp and soldered four short wires to a perf board with the FET mute circuit described in the KC1 manual. I mounted the KC1 board to the rear panel as I had no room on the front due to a LED S Meter already there. I wired the VFO, keying and audio feeds to the KC1 as directed and got ready to check it out.

The keyer and vfo audio readout worked great right off but the muting circuit wouldn't mute! The FETs (EGC 451) I had chosen wouldn't pass the signals to the audio amp. After some running round I located some MPF102s at a local Radio Shack and bingo! The circuit started working correctly.

I haven't had much time to play with it yet but from what I've seen so far it's a must for any cw rig.

Pete WK8S

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>  
Subject: [3408] Last Call  
Message-ID: <Pine.A32.3.91j.950924125358.37829B-100000@homer28.u.washington.edu>

The long awaited second qrp-1 group buy of the QRP+ general coverage transciever is about to come to a close. Here are the details:

QRP+: \$580    Microphone: \$29    Shipping: \$10 US, \$20 Canada

A general price increase will raise the retail price to \$645 effective October 28, 1995, according to Bruce at Index Labs. There have been improvements; the keyer will now increment in 1 WPM steps and there is mode memory at power down. The QRP+ is currently shipping from stock so delivery should be timely.

Contact Index Labs at: Voice: (206) 851-5725  
FAX: (206) 851-8385

The group buy will close on September 28, 1995. I do not work for Index Labs or otherwise benefit from their business.

Stephen Lee  
AB7HI

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Jeff Gold <JMG@tntech.edu>  
Subject: [3426] Lots of parts  
Message-ID: <01HVOPGQX2ZMI1AWVG@tntech.edu>

mornin, all.

Well did some therapy sessions with my OHR400 kit. Got all the boards built up (including Curtis Keyer). Started to build the Chassis and made it to the section on Final wiring. Thought I had done a lot.. but plenty to go.. really getting my money's worth out of this building.

Kept looking at the kit.. now the chassis is built with the boards in it and all the panel jacks and switches.. this is one sturdy case.. may be a little large.. but boy is it solid. kept looking back and here are some statistics (close but may be one off-):

- 53 wires to hook up for switches and between board connections

- 18 panel mounted switches and jacks:

- Front:

- .VFO
    - .Power Indicator
    - .AF gain
    - .phone jack
    - .CW speed control
    - .tune/operate switch
    - .AGC on/off
    - .RF Gain
    - .Band selector switch
    - .Filter in/out
    - .center detent RIT

- Rear:

- .Manual key
    - .Keyer

.power  
.oscillator out  
.Ground  
.power level adjust  
.antenna

have a gud'un

73,72

Jeff, AC4HF

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: SHUSTER5647@delphi.com  
Subject: [3421] NorCal 40A construction  
Message-ID: <01HVOBEM3E2G8ZF3Q0@delphi.com>

I got my NC40A in the mail last Friday. I started work on it at 3pm when I got home from work and had it on the air by 11pm.

I took an hour out to make supper for the family. So, I completed construction and calibration in 7 hours. It passed the smoke test and I called CQ for half an hour from Seattle until a nightowl from Southern California answered and gave me a 439 report.

I'm wondering how my construction time compares with others who have put this rig together. It is only the 2nd kit I have done and I'm wondering how I compare with others who have enjoyed the opportunity to build one.

I can see why people love this rig. It looks sharp and it works well. It's just the right size. I almost want to put a belt clip on the bottom, a battery pack in my back pocket, and walk around with an alligator clip looking for rain gutters. It's the only radio I've ever seen that tunes with a pot, but then again I'm kind of new to in-depth electronics and construction. It was really fun to build. I don't think I've set any record, but I'd like to get an idea of how long it took others to put it together.

73,

John  
KC7CKP

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: wa5whn@ix.netcom.com (Jay Miller)  
Subject: [3397] Oct. '95 issue of "73"-QRP articles  
Message-ID: <199509241446.HAA07084@ix6.ix.netcom.com>

Fellow QRPers,

October, '95 issue of "73" magazine has 5 articles dedicated to QRP.  
2 mini-Antenna tuners, review of the Ramsey 20 meter SSB QRP Xcvr,  
solar powered station for a HW-8, & WB8VGE's column.

72...Jay, WA5WHN, Albuquerque, NM

PS Dumb question for the week ; "Excluding those manuals that are copyrighted, would there be an interest to have the most popular QRP articles/manuals on a CD-ROM ?" (ie: HW-8, HW-9, HW-7, NorCal radios, et al ) I have access to a color scanner & CD-ROM burner (fee involved), and was curious if there was an interest. With the collective knowledge of this group, and access to old manuals, it maybe of interest to try this. You know what they say about Volunteers ? They either did not understand the question or raised their hands, to stretch, while yawning.

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: ATXR@CENVMC.CENCOL.ON.CA  
Subject: [3399] OHR "Classic" problem/questions

From: Ted Rosen, Architectural Technology Department  
I expect only OHR Classic owners will be interested in the following, and all helpful suggestions would be appreciated:

I am having an ongoing problem with my Oak Hills Research Classic. The manual indicates that it is possible to align the rig to obtain 4-5 watts output on both 20m and 40m. When adjusting L303 and L307 for 20m, in accordance with the alignment instructions, I obtain 2-3 watts output, and when adjusting L304 and L308 for 40m for maximum output I get 6-7 watts. (all into a dummy load through a MFJ-940D being used as a watt meter) Changing from these adjustments to obtain 4-5 watts on both bands does not allow me to obtain low swr when transmitting through an antenna.

The adjustment of C118 seems to be VERY sensitive. All works fine transmitting into the dummy load. When switching to a G5RV for 40m (or a tri-band beam for 20m) which is being tuned through the MFJ-940D (tuning confirmed through use of an ICOM 751 on the same frequency), the cross needle meter  
Ted Rosen, Architectural Technology Department



Centennial College of Applied Arts and Technology  
Phone: \_\_\_\_\_(416)694-3241x2214\_\_\_\_\_Fax: (416)439-2860  
Voice Mail: (416)694-3241x2151\_\_\_\_\_Internet: atxr@cencol.on.ca

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: kd7s@valleynet.com (Bill Jones)  
Subject: [3403] QRP CD-ROM  
Message-ID: <199509241705.KAA25556@sierra.valleynet.com>

Jay Miller (WA5WHN) posed a question whether having info on some of the classic QRP rigs (HW-7, HW-8 and HW-9, etc) on a CD-ROM would be a good idea. Speaking for myself, I don't think it would be a good idea....rather, it would be a \*great\* idea. Taking it a step further, why not include any and all information the group could come up with (copyright material excluded) and make it the equivalent to the ARRL Handbook for the QRP enthusiasts around the world. What a resource that would be. How much does it cost to burn a CD, Jay?

=====  
Bill Jones - KD7S  
Sanger, California  
Reply to kd7s@valleynet.com  
=====

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>  
Subject: [3419] QRP CD-ROM  
Message-ID: <30661c3e.pandora@pandora.lugs.po.my>

Hi,

I agree, this has to be one of the best ideas this year :-) I have tons of archives for stuffs from the list and elsewhere collected over a long time and they take up a lot of space on my HDD. Not only that, I am always going through stacks of magazines just to find that one article about something I want to build. Why didn't we think of this before, excellent idea. What kind of cost are we looking at and what kind of help is needed? I dunno but I might be able to volunteer (one of those who didn't understand the question <G>).

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.po.my

9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski)  
Subject: [3415] QRP visit to DC/MD  
Message-ID: <1995Sep24.221759.16261@abs.net>

Niel: Re your upcoming trip to the Gaithersburg/Wash DC area on 26-29 Sept, please let us know ASAP where you will be and when you will be available. Please post to the list, as well as to bruce3900@delphi.com and me, wa8mcq@bbs.abs.net. Bruce will be your main point of contact (I hereby volunteer him), and I get the daily digest (which only comes out once a day) so I need the direct reply as well to speed things up. My work number is 410-290-1919, or if you prefer a metro Washington number, which should be a local call from the Gaithersburg area, try 301-621-3340. Ask for "Mike Ski".

You get the standard Maryland Milliwatts offer: some of us will meet you at your hotel and go to dinner in the local area. You have to pay for your own meal, but get treated to several hours of sparkling QRP conversation; and if I remember to bring them, you also get to see my Tiny Weekender, my QRP Key, my DB-25 transmitter and one of the DB-25 transceivers (rigs in pill bottles), as well as the package for Phase II of the DB-25 challenge. (No one has started soldering on Phase II yet, but we're starting to get psyched about it. Phase I has a volume of 3/4 cubic inch, while Phase II is 0.49 cubic inch. Keep in mind that not one, but two people put fully operational 40 meter CW transceivers, with internal VFO, in their bottles.)

As always, anyone in the local area is welcome to join us and greet a traveling QRPer. So far we've done Ed Hare of ARRL, K5FO (twice) and N0OCT. Just be sure to let us know if you plan on joining, and make sure we get your phone number so you can be kept up to date on plans, which always change several times along the way.

73 and Queue Our Pea DE WA8MCQ

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Mike Czuhajewski, user of the UniBoard System @ abs.net  
E-Mail: Mike.Czuhajewski@bbs.abs.net  
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA  
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: SHUSTER5647@delphi.com  
Subject: [3420] Radio Shack 1 watt amp kit  
Message-ID: <01HV0AU4Z1BM8ZF3Q0@delphi.com>

I was surprised to find a kit at Radio Shack that required soldering. For \$8.99 they have a Power Amplifier Module Kit. It's a little postage stamp sized board that runs on 4 to 18 vdc and puts out 1 watt of audio. Does anyone have experience with these? Should I pick one up for a future project?

John  
KC7CKP

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: DAVEAF5U@aol.com  
Subject: [3423] Scout Front Panel Pwr Mod.  
Message-ID: <950925012439\_28376903@emout05.mail.aol.com>

Modification:

Scout Front Panel RF Power Control

Figure 1 may be missing because this document was sent via E-mail.

OVERVIEW: This modification will allow the Ten Tec Scout to be controlled on the front panel to be RF power adjustable from a nominal 3.0 watts to 50 watts output. The microphone level control will be modified to be RF power control and the microphone level will become a fixed level.

TOOLS NEEDED:

1. soldering iron of about 35 watts
2. 60/40 rosin core solder
3. side cutters
4. needle nose pliers
5. razor blade or exacto or hot knife
6. #1 Phillips screwdriver
7. Ohmmeter

PARTS NEEDED:

1. 3-conductor flat ribbon cable 5 inches long (#24 stranded)
2. two resistors 4.7k ohms (yel/vio/red), 1/8 watt or less
3. two strips of electrical tape 5 inches long

Procedure:

1. Remove top and bottom covers of the Scout using the #1 Phillips screwdriver. Place the four black screws that were removed into a

- container. Be carefull not to damage the speaker or covers.
2. Locate the RECEIVER CONTROL board (81644) on the top side of the Scout.
  3. Unplug cables #13, #18 ( and #42 if Noise Blanker was installed).
  4. Remove RECEIVER CONTROL board four mounting screws using the #1 Phillips screwdriver.
  5. Flip the board s side facing the back of the Scout back and up, as if it was the hood of a car. Use a tool to prop the board in this position.
  6. Carefully turn the radio over and use figure 1 to locate R21 (RF POWER CONTROL) on the LLD/ALC board (81645). The bottom cover has a hole labled RF Power and that hole can be used to locate R21.
  7. Remove R21 (10k ohm PCB pot). Make certain that you do not burn wires or the PCB. Do not apply heat to the board for more than 5 seconds at a time and then allow to cool down. Make sure that you are desoldering the proper points. If you do not have desoldering skill to do a good job, stop and allow a skilled technician to do this step.
  8. Install the three conductor cable as shown in figure 1 to the R21 solder pads. Cut off any extra wire with your side cutters. Make sure that the wire falls outside of the Scout s chassis.
  9. Reinstall the RECEIVER CONTROL board using the 4 screws. Now reinstall the unplugged cables #18, #13 (and #42 if you have a noise blanker).
  10. Observe figure 1 while you cut away the plastic near the RIT/MIC knob.

I have found that the plastic is much easier to cut if it is hot. Use your soldering iron or hot knife to cut away and heat the plastic before a blade is used. Observe the PCB trace to expose only the area necessary that is connected to the 10k ohm pot RIT/MIC.
  11. Lay down a piece of electrical tape over the PCB where the 3 conductor wire will pass. This will protect the wire from puncture on sharp objects.
  12. Solder the 3 wires to the RIT/MIC 10k ohm traces as shown on figure 1.
  13. Cut the three traces as shown on figure 1 using a blade.

Check to make sure that the traces are cut using an ohmmeter.

14. Install the two resistors (4.7k ohms) as shown in figure 1. These resistors set in a fixed mid-range pot. value. Any adjustment to the microphone audio can best be done inside the microphone itself. If you are using the Ten Tec model 700C microphone, I have found that a 1k ohm resistor soldered across the printed circuit board traces going to the white and black wires yeilds the correct audio for myself. Other microphones may require different resistor values other than 4.7k ohms.

15. Install another strip of electrical tape over the 3 conductor cable to hold it in place. No shielding is required. Check out the results.

73 and 72 AF5U - Dave Little, 10125 East Becker Ln

Scottsdale,  
AZ 85260  
(602) 661-1187 DAVEAF5U@AOL.COM

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: dgf@netcom.com (David Feldman)  
Subject: [3402] Ten-Tec AC5 question  
Message-ID: <199509241648.JAA15049@netcom15.netcom.com>

At today's Colorado (Longmont) swapmeet a Ten-Tec AC5 tuner decided to follow me home. But I have a question --- it has no top/side cover. Was it intended to have such a cover? If so, how would you select a tap on the coil? Does someone have a copy of the docs they might photocopy for me?

Thanx,

73 Dave WB0GAZ dgf@netcom.com

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: paul1@wizard.ucs.sfu.ca (Paul Erickson)  
Subject: [3398] Wanted TS130V  
Message-ID: <9509241459.AA15935@wizard.ucs.sfu.ca>

Does anyone have one of these that they are willing to part with??

cheers, Paul  
VE7CQK  
email: paul1@wizard.ucs.sfu.ca

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: "Mark J. Dulcey" <mdulcey@pryder.pn.com>  
Subject: [3404] Re: Capacitor question and wife notes.  
Message-ID: <Pine.LNX.3.91.950924130912.5363A-100000@pryder.pn.com>

On Sat, 23 Sep 1995 Ptcandy@aol.com wrote:

> I'm building a low-pass filter. The design I am using is on page 125 and 126  
> in  
> QRP CLASSICS published by the ARRL. The plans call for using silver-mica  
> capacitors. I have checked Digi-Com as well as a local supplier's catalog and  
> the closest I come up with are plain mica capacitors. Are they the same? If  
> not, what is the modern-day counterpart of the silver-mica cap? If these  
> little guys are still around, who carries them? Your help would be  
> appreciated. The article originally appeared in the April, 1979 issue of QST.  
> (A lifetime ago for some).

I looked in the most recent Mouser catalog in my shack (#582, prices guaranteed to July 31, 1995), and found a limited selection of dipped silver mica capacitors on page 191, with the following note: "This series of dipped MICA's is being discontinued. This is being replaced by Cornell Dublier DC 10 and 19 Series on the following page." The next page had a large selection of dipped mica caps; no mention of silver in these.

If this is any indication, silver-mica caps are on the way out, if not already gone. I imagine that the ones that don't use silver are less expensive to manufacture. The specs appear similar, so the new ones will probably work.

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [3405] Re: Capacitor question and wife notes.  
Message-ID: <Pine.SUN.3.90.950924121706.21399B-1000000@vortex>

Hi,

The Silver mica caps may have been another item that  
has fallen victim to the runaway EPA.

I handle Silver Iodide here and spend about 20 to 25%  
of my time doing the paper tracking for the haz mat  
logs!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
...ku7y@sage.dri.edu.....Sun Valley, Nevada....  
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: jlowman@iepsnet.com (Jim Lowman)  
Subject: [3422] Re: Capacitor question and wife notes.  
Message-ID: <199509250524.BAA63242@nss2.CC.Lehigh.EDU>

>Also, I would like to respond to the fellow who's wife just became a ham. My  
>XYL  
>was not crazy about my hobby until I got her involved. It started with  
>November  
>Sweepstakes a few years ago. I had the gang over for the contest and my wife  
>got  
>involved in logging. Her girlfriend's are hams so that doesn't hurt either.  
>What  
>clinched it however was the time Candi (my XYL) and her friend Diane KA2GWM  
>were shopping. Diane took her handi-talkie out of her bag, called her OM on  
>the local repeater and ordered him to start dinner. My wife looked at this  
>device as a remote control for  
>the husband. She quickly got her license (N2SXY--great call for a YL) and  
>purchased a  
>remote control----I mean handi talkie for herself. The only regret I have

>about Candi  
>getting a ticket is that she reads my ham magazines and now knows ham radio  
>equipment costs more than \$50.  
>Gotta go!! N2SXY is calling.  
>Coming dear.

Really enjoyed your post! Coincidentally, at the Hamcon95 on the Queen Mary at the Southwestern Division Convention at Long Beach, my wife went radio shopping. Her callsign was about a week old. Well, she promptly bought a Yaesu FT-11R HT and just about everything that goes with it, including the Windows software to program the rig. I really wanted to buy the FT-51R for myself, as she doesn't seem to be interested in 440, but I couldn't justify it to myself, since my separate 2m/70cm HTs are in fine working condition.

Maybe it's a good thing that she is only interested in 2m FM, and is planning to upgrade to Tech Plus to work 10m. She's beginning to make me look bad at the local club. :-)

Jim - KF6CR

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Rich Mulvey <mulveyr@vivanet.com>  
Subject: [3401] Re: OHR "Classic" problem/questions  
Message-ID: <199509241548.LAA06989@linux>

> I am having an ongoing problem with my Oak Hills Research Classic.  
> The manual indicates that it is possible to align the rig to  
> obtain 4-5 watts output on both 20m and 40m. When adjusting L303 and  
> L307 for 20m, in accordance with the alignment instructions, I obtain  
> 2-3 watts output, and when adjusting L304 and L308 for 40m for  
> maximum output I get 6-7 watts. (all into a dummy load through a  
> MFJ-940D being used as a watt meter) Changing from these adjustments  
> to obtain 4-5 watts on both bands does not allow me to obtain low  
> swr when transmitting through an antenna.  
>

If you're getting 4-5 watts into a dummy load on both bands, then you're all set. Readjusting the transmitter won't affect the SWR at all, unless you're also changing the frequency.

> The adjustment of C118 seems to be VERY sensitive. All works fine  
> transmitting into the dummy load. When switching to a G5RV for 40m



> (or a tri-band beam for 20m)  
> which is being tuned through the MFJ-940D (tuning confirmed through  
> use of an ICOM 751 on the same frequency), the cross needle meter

I suspect your problem is that your SWR/Watt meter simply isn't accurate at QRP levels. For example - I have an MFJ 941D that insists that my SWR is over 3:1 when I transmit at 2 watts. It also claims that I'm transmitting at less than a watt. :-) Measurements taken with an accurately aligned Oak Hills WM-1 Wattmeter indicate that the SWR is in fact about 1.2:1. When operating QRO ( Over 10 watts :-) the 941 is MUCH more accurate.

- Rich

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: JCoote@aol.com  
Subject: [3411] Re: QRP ant tuners  
Message-ID: <950924201601\_28146638@emout06.mail.aol.com>

I think you can use broadcast variable caps in a tuner for QRP-CW, and they may hold up on QRP-SSB. Keep in mind the peak RF voltage across those caps will be more at SSB than at CW... I think four times more if I remember all that stuff correctly.

360 pF BC variables are good in tuners because they offer a lot of extra capacitance which is needed on the lower bands, or for difficult antenna reactances. Sometimes poorly conceived tuner designs do not have enough inductive or capacitive "headroom" to tune the worst of antennas on 40, 80, 160.

I built a tuner for random wires which used a single 360 pF cap and series coil in an L-network configured for high impedance. It worked on all amateur bands with many different lengths of wire and counterpoise.

73, Jay  
WB6AAM

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: PaulKB8N@aol.com  
Subject: [3413] Re: QRP ant tuners  
Message-ID: <950924214237\_107925547@emout04.mail.aol.com>

I have worked extensively with Pi-Network tuners, and swear by them. You should use a balun for balanced feeders, but I have very successfully used a Pi Net with one side of a balanced line just hooked to ground. In fact, I have a remote tuner in the attic that I use with my 80M dipole that I use with no balun on the output. I use a choke balun (ferrite sleeves on the coax) on the input and have no "RF in the shack".

My favorite design uses broadcast variables on the output side and a capacitor of slightly wider spacing on the input side of the pi. I have also used ARCO compression trimmers on both sides of the pi at power levels of up to 100W. They come in values up to 2000pf and seem to handle the power, but I don't recommend running them at the 100W level constantly, but certainly are great at the QRP level.

Based on practical experience, I make the following recommendations for coil conductor size: <10W - #18, <100W - #14, >100W - #12. This is based on heating of the coil that I have experienced when using smaller conductor sizes. I recommend the following coil and input/output capacitance for the bands listed: 40M and above - 10uH, 250pf/400pf; 80M - 15uH, 600pf/1000pf; 160M - 20uH, 1000pf/2000pf. These values will load almost any impedance, of course, the capacitors must be variable and the inductor variable (either rotary or tapped).

I have a lot of parts for tuners that I've collected over the years. Let me know if you need anything. 73, Paul, KB8N

From qrp-l@lehigh.edu Mon Sep 25 10:08:00 1995  
From: cebik@UTKVX.UTCC.UTK.EDU  
Subject: [3424] Re: QRP ant tuners  
Message-ID: <Pine.PMDF.3.91.950925074848.543476936D-100000@utkvx.utk.edu>

To second Paul's notes on PI network tuners, let me note that historically, most general handbooks have not shown PI networks for antenna tuners because the capacitor value vs. plate spacing requirements were not practical at a KW. However, those problems are not acute for QRP, and the design is very applicable to QRP work as a low pass filter as well as tuner.

The L-C-L Tee is also a low pass filter and quite good for QRP. Look for LaPointe rotary inductors at hamfests--I got a couple some years back for \$10 each to use in some remote-tuning antenna experiments. They are not for backpacking, but work well as a main station tuner.

For variable capacitors of sufficient values, check the hamfest real-old-radio-junk dealers. There are a lot of variables from old

military gear with plenty of sections and C--again, not backpacker items, but fine for main station use. Please do not believe that your main station ATU has to be a 1" cube. Give your hands plenty of room to make adjustments precisely. Surplus is cheap enough that you can have 2 or more ATUs, each designed for its own function. You might even consider monoband units for backpacking--or dual band. No sense having lots of extra L and C if you don't plan to operate 80 from the field, etc.

Brian Egan, ZL1LE, has a program he developed called TUNER.BAS which will calculate needed values for an almost unlimited set of  $R \pm jX$  at the ATU output and any R for the input (tho 50 ohms is the usual) for any HF, and for any of the network (not inductively coupled) tuner designs: SPC, CLC TEE, LCL TEE, PI, etc. In the near future, it will be added to VE3ERP's handy collection of programs called HAMCALC. I'll pass along the word as soon as it is included in Murph's collection. TUNER.BAS is handy for figuring out the inductor and capacitor value ranges needed for anticipated conditions for any and all bands for ATUs. Since many conditions have multiple solutions, Brian is adding a Terman delta factor calculation which will help you comparatively estimate losses (lower delta is "better").

Stay tuned for further developments.

-73-  
LB, W4RNL

From qrp-l@lehigh.edu Mon Sep 25 10:08:00 1995  
From: Steve.hideg.1@nd.edu (Steve Hideg)  
Subject: [3407] Re: QRP CD-ROM  
Message-ID: <v02130503ac8b61cca50f@[129.74.35.16]>

I'm working on a similar project on the WorldWide Web. And I am actively seeking input.

Check out the reference catalog section on the QRP-L Resource Page:

<http://qrp.cc.nd.edu>

--Steve

>Jay Miller (WA5WHN) posed a question whether having info on some of the  
>classic QRP rigs (HW-7, HW-8 and HW-9, etc) on a CD-ROM would be a good  
>idea. Speaking for myself, I don't think it would be a good idea....rather,  
>it would be a \*great\* idea. Taking it a step further, why not include any  
>and all information the group could come up with (copyright material

>excluded) and make it the equivalent to the ARRL Handbook for the QRP  
>enthusiasts around the world. What a resource that would be. How much does  
>it cost to burn a CD, Jay?

>=====

>Bill Jones - KD7S

>Sanger, California

>Reply to kd7s@valleynet.com

>=====

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Steve Hideg    Macintosh Consultant/Analyst

Office of University Computing	Telephone: (219) 631-EXAM
G034 Computing Center/Math Building	E-mail: Steve.Hideg.1@nd.edu
University of Notre Dame	URL: <a href="http://www.nd.edu/~shideg/">http://www.nd.edu/~shideg/</a>
Notre Dame, IN 46556	Ham Radio: N8HSC/9

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The road to Enlightenment is long and difficult.  
(So bring snacks and a magazine.)

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: af852@rgfn.epcc.Edu (William R Colbert)  
Subject: [3400] Re: RTTY Contest  
Message-ID: <9509241551.AA14184@rgfn.epcc.Edu>

Re blurb from Smitty on the RTTY, unfortunately there is a CQ WW RTTY  
contest this weekend and the only salvation so far has been 30 meters.  
I have heard these nerds as far down as 7020 on 40, 3540 on 80 and  
14050 on 20. It is obvious that most of them have no receivers as  
they crank up on existing QSO's, wonder how they make contact??  
The classic radio exchange is also today, plan to put my qrp HT-18  
R-388 on starting at 1900Z. 72/73 Ray, W5XE

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: N5EM@aol.com  
Subject: [3417] Re: RTTY Contest  
Message-ID: <950924231806\_107997641@emout05.mail.aol.com>

In a message dated 95-09-24 11:52:49 EDT, you write:

>I have heard these nerds as far down as 7020 on 40, 3540 on 80 and  
>14050 on 20. It is obvious that most of them have no receivers as  
>they crank up on existing QSO's, wonder how they make contact??

I guess you're right. I tried to zero beat as closely to the guy on 7040 as possible. Called and called and called but never got an answer :-)

Guess he couldn't copy my bits.

Ed

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: jcumming@clark.dgim.doc.ca (Jim Cummings)  
Subject: [3425] Re: RTTY Contest  
Message-ID: <9509251210.AA20262@clark.dgim.doc.ca>

>Please, somebody tell me that there is some kind of RTTY contest going on  
>that would cause all of those RTTY stations to be down in the CW portion  
>of the band starting about 7.035.

>

>Thanks

>

>Henry Smith (hbs@crl.com)

>

Yes, it was the CQ World Wide RTTY Contest - and it was great.

By the way, outside of ITU Region 2, that portion of the band is considered to be the digital portion.

=====  
Jim Cummings  
eMail:jcumming@clark.dgim.doc.ca  
packet:VE3XJ@VE3JF.#EONT.ON.CA.NOAM  
73 and live better digitally  
DON'T GET TOO EXCITED...  
because remember, today is the first  
day of the rest of your life.  
=====

From qrp-1@lehigh.edu Mon Sep 25 10:08:00 1995  
From: H Smith <hbs@crl.com>  
Subject: [3406] Re: RTTY Contest & Cascade Orders  
Message-ID: <Pine.SUN.3.91.950924114355.16871B-100000@crl11.crl.com>

RTTY:

I finally managed to find my September QST and yes, there is a RTTY contest this weekend. Whew! I was worried that an invasion was taking place. Although I can't imagine why any serious RTTY operator would want to try to contend with a bunch of CW crazys.

Remember, RTTY (which is older than SSB) is not self correcting. It's like CW, once it's sent, it's sent. Hence, RTTY is very sensitive to CW interference.

So I don't worry about the RTTY folks. (As a matter of fact, QRP RTTY interests me)

-----  
CASCADDES:

Wow! The Cascades are a-comming! What an effort it must be to assemble hundreds of kits during your spare time.

I think we owe a lot to those Hams who are willing to devote a lot of their time, energy, and money to making this Hobby even more enjoyable.

So to those fine folks who design kits, assemble kits, write articles, manage contests, create fox hunts, etc, etc, .....

I thank you.

-----  
RTTY and CASCADDES:

Will it be possible to put the Cascade on QRP RTTY? Will it handle the continuous transmission?

CUL,

Smitty, NA5K

Henry Smith (hbs@crl.com)